

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID: BIG 17RQ: 2018-Project: CONTINUOUS MONITORING

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400Date of Last Temperature Verification 3/22/18

DO FDEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	JOHN BARRINGTON	5/3/18	0715	24.14	8.40	8.40	100.0	NA	1.06	(P) F	(L) F
ICV	JOHN BARRINGTON	5/3/18	0717	24.24	8.38	8.38	100.0	—	—	(P) F	(L) F
CCV	S. COFORD	5/8/18	1445	25.4	8.263	8.19	100.4	—	—	(P) F	(L) F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	JOHN BARRINGTON	5/3/18	0719	170728C	8/18	10,000	10,001	(P) F	(L) F
ICV	JOHN BARRINGTON	5/3/18	0722	180340D	4/19	50,000	50397	(P) F	(L) F
CCV	S. COFORD	5/8/18	1410	180320D	4/19	50,000	49,970	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	JOHN BARRINGTON	5/3/18	0724	177435	10/19	7.0	7.00	-40.6	(P) F	(L) F
Calibr.	JOHN BARRINGTON	5/3/18	0726	17759	10/19	4.0	4.00	127.9	(P) F	(L) F
Calibr.	JOHN BARRINGTON	5/3/18	0728	176509	9/19	10.0	10.00	-220.7	(P) F	(L) F
ICV	JOHN BARRINGTON	5/3/18	0730	176509	9/19	10.0	10.02	—	(P) F	(L) F
CCV	S. COFORD	5/8/18	1414	177759	10/20	4.0	3.89	—	(P) F	(L) F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 180.1, slope from 4 to 7 168.5 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter ID: LC45

RQ: 2018-04-30-19

Project: CONT. MONITORING

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

3/22/18

DO	Name	Date	Time	Temp	D.O.	Meter	% DO	Probe	Probe	Pass	Lab
DEP SOP			CT-ET		Chart	D.O.		Charge	Gain	/	/
FT 1500					mg/L	mg/L				Fail	Field
Calibr.	S. COFOR	5/8/18	0705	23.68	8.466	8.49	99.8	625	1.1948	(P) F	(L) F
ICV	"	"	0707	23.67	8.549	8.56	99.6	61.4	—	(P) F	(L) F
CCV	JOHN BORRINGTON	5/8/18	1345	23.74	8.47	8.67	102.4	—	—	(P) F	(L) F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec.	Name	Date	Time	Lot #	Expir.	Standard	Meter	Pass	Lab
Cond.			CT-ET		Date	μ hos/cm	Reading	/	/
FT 1200							μ hos/cm	Fail	Field
Calibr.	S. COFOR	5/8/18	0710	180321B	04/19	1000	1002	(P) F	(L) F
ICV	"	"	0712	1712110	12/18	500	502	(P) F	(L) F
CCV	JOHN BORRINGTON	5/8/18	1347	180321D	4/19	50,000	50,000	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time	Lot #	Expir.	pH	Meter	mV	Pass	Lab
DEP SOP			CT-ET		Date	Buffer	reading		/	/
FT 1100						SU	SU		Fail	Field
Calibr.	S. COFOR	5/8/18	0715	177435	10/16	7.0	7.0	-20.1	(P) F	(L) F
Calibr.	"	"	0717	177759	10/20	4.0	3.97	157.8	(P) F	(L) F
Calibr.	"	"	0720	176507	9/15	10.0	10.00	-198.5	(P) F	(L) F
ICV	"	"	0725	177759	10/20	4.0	3.98	156.3	(P) F	(L) F
CCV	JOHN BORRINGTON	5/8/18	1349	176507	9/19	10.0	10.00	—	(P) F	(L) F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 177.6, slope from 4 to 7 177.9 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor	Name	Date	Time	Calibrated	ICV Value	Pass /	Lab /
(Daily Calibration & ICV)			CT-ET	Value (0.00 or Offset), meters	meters	Fail	Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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Meter ID: 5197 RQ: 2018-04-30-19 Project: Continued

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

3/22/18

DO	Name	Date	Time	Temp	D.O.	Meter	% DO	Probe	Probe	Pass	Lab
DEP SOP FT 1500			CT-ET		Chart mg/L	D.O. mg/L		Charge	Gain	/ Fail	/ Field
Calibr.	Chase Conley	5/3/18	0710	24.53	8.34	8.35	100			P/F	L/F
ICV	Chase Conley	5/3/18	0713	24.57	8.34	8.31	100			P/F	L/F
CCV	JOHN BARRINGTON	5/8/18	1351	24.90	8.28	8.10	97.9			P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
			CT-ET						
Calibr.	Chase Conley	5/3/18	0715	170725L	8/18	10000	10000	P/F	L/F
ICV	Chase Conley	5/3/18	0717	1803213	4/19	1000	996	P/F	L/F
CCV	JOHN BARRINGTON	5/8/18	1353	180321D	4/19	50,000	50,322	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
			CT-ET							
Calibr.	Chase Conley	5/3/18	0720	177435	10/19	7.0	7.00	-32	P/F	L/F
Calibr.	Chase Conley	5/3/18	0722	177759	10/19	4.0	4.0	142	P/F	L/F
Calibr.	Chase Conley	5/3/18	0725	177758	9/19	10.0	10.0	-208	P/F	L/F
ICV	Chase Conley	5/3/18	0728	177758	9/19	10.0	9.99	-208	P/F	L/F
CCV	JOHN BARRINGTON	5/8/18	1355	177759	10/19	4.0	3.86	—	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 176, slope from 4 to 7 179 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
			CT-ET				
Pressure mode in air						P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: